CLAIMS

1. A data matching method comprising:

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a configuration component accumulating step accumulating a configuration component generated by decomposing a measuring quantity of an object by a predetermined method and a plurality of states of said object each of which is corresponding to said configuration component;

a component decomposing step decomposing a

10 measuring quantity of a matching target object into
said configuration component at a predetermined state
of said plurality of states;

a parameter conversion step converting a parameter corresponding to said configuration component of said predetermined state into a converted parameter of a second state of said plurality of states different from said predetermined state;

a state change data generating step

20 generating a state change data by adding a

predetermined state change to a data of said matching

target object by using said configuration component

accumulated in said configuration component

accumulating step and said converted parameter; and

a matching step matching said state change data and a previously accumulated matching data.

- The data matching method according to claim
 , wherein said predetermined method is a principal
 component analysis.
- 5 3. A data matching method comprising:

a configuration component accumulating step accumulating a configuration component generated by decomposing a measuring quantity of an object by a predetermined method and a plurality of states of said object each of which is corresponding to said configuration component;

a connecting step connecting a parameter corresponding to said configuration component at a first state of said plurality of states and a parameter corresponding to said configuration component at a second state through a conversion using a learning;

a state change data generating step
generating a state change data of said second state
by converting a data of said matching target object
at said first state through a conversion using said
learning; and

a matching step matching said state change data and a matching data accumulated in advance.

4. The data matching method according to any of claims 1 to 3, wherein the data of said matching target

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is a biometrics data.

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- 5. The data matching method according to any of claims 1 to 4, wherein each of said plurality of states corresponds to a state at a different time through a course of aging.
- 6. The data matching method according to any of claims 1 to 5, wherein said measuring quantity is an 10 image of a face.
 - 7. A data matching apparatus comprising:
 - a configuration component accumulating unit configured to accumulate a configuration component generated by decomposing a measuring quantity of an object by a predetermined method and a plurality of states of said object each of which is corresponding to said configuration component;
- a component decomposing unit configured to

 20 decompose a measuring quantity of a matching target

 object into said configuration component at a

 predetermined state of said plurality of states;
- a parameter conversing unit configured to converting a parameter corresponding to said

 25 configuration component of said predetermined state into a converted parameter of a second state of said plurality of states different from said predetermined

state;

a state change data generating unit configured to generate a state change data by adding a predetermined state change to a data of said matching target object by using said configuration component accumulated in said configuration component accumulating step and said converted parameter; and

a matching unit configured to match said state

10 change data and a previously accumulated matching

data.

- 8. The data matching apparatus according to claim 7, wherein said predetermined method is a principal component analysis.
 - 9. A data matching apparatus comprising:

a configuration component accumulating unit configured to accumulate a configuration component generated by decomposing a measuring quantity of an object by a predetermined method and a plurality of states of said object each of which is corresponding to said configuration component;

a connecting unit configured to connect a

25 parameter corresponding to said configuration

component at a first state of said plurality of states

and a parameter corresponding to said configuration

component at a second state through a conversion using a learning;

a state change data generating unit configured to generate a state change data of said second state by converting a data of said matching target object at said first state through a conversion using said learning; and

a matching unit configured to match said state change data and a matching data accumulated in advance.

10. The data matching apparatus according to any of claims 7 to 9, wherein the data of said matching target is a biometrics data.

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11. The data matching apparatus according to any of claims 7 to 10, wherein each of said plurality of states corresponds to a state at a different time through a course of aging.

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- 12. The data matching apparatus according to any of claims 7 to 11, wherein said measuring quantity is an image of a face.
- 25 13. A data matching program for instructing a computer to execute a method comprising:

a configuration component accumulating step

accumulating a configuration component generated by decomposing a measuring quantity of an object by a predetermined method and a plurality of states of said object each of which is corresponding to said configuration component;

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a component decomposing step decomposing a measuring quantity of a matching target object into said configuration component at a predetermined state of said plurality of states;

a parameter conversion step converting a parameter corresponding to said configuration component of said predetermined state into a converted parameter of a second state of said plurality of states different from said predetermined state;

a state change data generating step

generating a state change data by adding a

predetermined state change to a data of said matching

target object by using said configuration component

accumulated in said configuration component

accumulating step and said converted parameter; and

a matching step matching said state change

data and a previously accumulated matching data.

25 14. A data matching program for instructing a computer to execute a method comprising:

a configuration component accumulating step

accumulating a configuration component generated by decomposing a measuring quantity of an object by a predetermined method and a plurality of states of said object each of which is corresponding to said configuration component;

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a connecting step connecting a parameter corresponding to said configuration component at a first state of said plurality of states and a parameter corresponding to said configuration component at a second state through a conversion using a learning;

a state change data generating step
generating a state change data of said second state
by converting a data of said matching target object
at said first state through a conversion using said
learning; and

a matching step matching said state change data and a matching data accumulated in advance.